

# **CONSTRUCTION NOTES:**

1. PROFILE GRADE IN FAILURE AREA SHALL BE ESTABLISHED BY LINEAR INTERPOLATION FROM TOP OF ASPHALT AT EITHER END.
2. CROSS SLOPE GRADES SHALL BE ESTABLISHED FROM SUPERELEVATION DATA GIVEN ON PLANS.
3. ENGINEER SHALL DETERMINE THE ACTUAL LIMITS OF EXCAVATION TO FIRM FOUNDATION.

**TYPICAL SECTION**

*James P. Mayer*  
1/28/99

PATH: Q:\JNU\FRITZSLD\EN\PRELIM

PLOT: 1=1(F) OR 1=2(H)

BY: DATE: DESCRIPTION OF CHANGE:

STATE OF ALASKA  
DEPARTMENT OF TRANSPORTATION

JUNEAU

JNU-FRITZ COVE ROAD

ALASKA

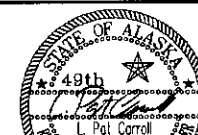
DESIGNED BY:  
P. CARROLL

DRAWN BY:

PROJECT NO.  
67707

DATE:

NOTE: DO NOT SCALE FROM THESE PLANS—USE DIMENSIONS



# CONSTRUCTION NOTES:

1. FLATTEN FAILURE SLOPES TO 1:1 WITHIN PAVING LIMITS PRIOR TO BACKFILLING WITH BORROW, TYPE D.
2. IF EXISTING FLARED END TREATMENT IS REMOVED DURING CONSTRUCTION IT MUST BE REPLACED WITH A SRT-350 END TREATMENT. **NOT REMOVED**
3. LOCATION OF UNDERDRAIN PIPE APPROXIMATE AND SUBJECT TO ENGINEERS LOCATION. MINIMUM SLOPE IS 2%. **NOT INSTALLED**
4. LOCATION OF FLARED END TREATMENT SHALL BE DETERMINED BY THE ENGINEER TO ACCOMMODATE CONSTRUCTION OF STAIRS TO ACCESS ADJACENT PROPERTY.
5. FALL AND REMOVE TREES DESIGNATED BY THE ENGINEER.
6. IN WATER WORK WILL NOT BE PERMITTED.
7. NO MATERIALS SHALL BE STOCKPILED NOR TEMPORARY EMBANKMENTS CONSTRUCTED BELOW THE HIGH TIDE LINE (ELEV. 20.3).

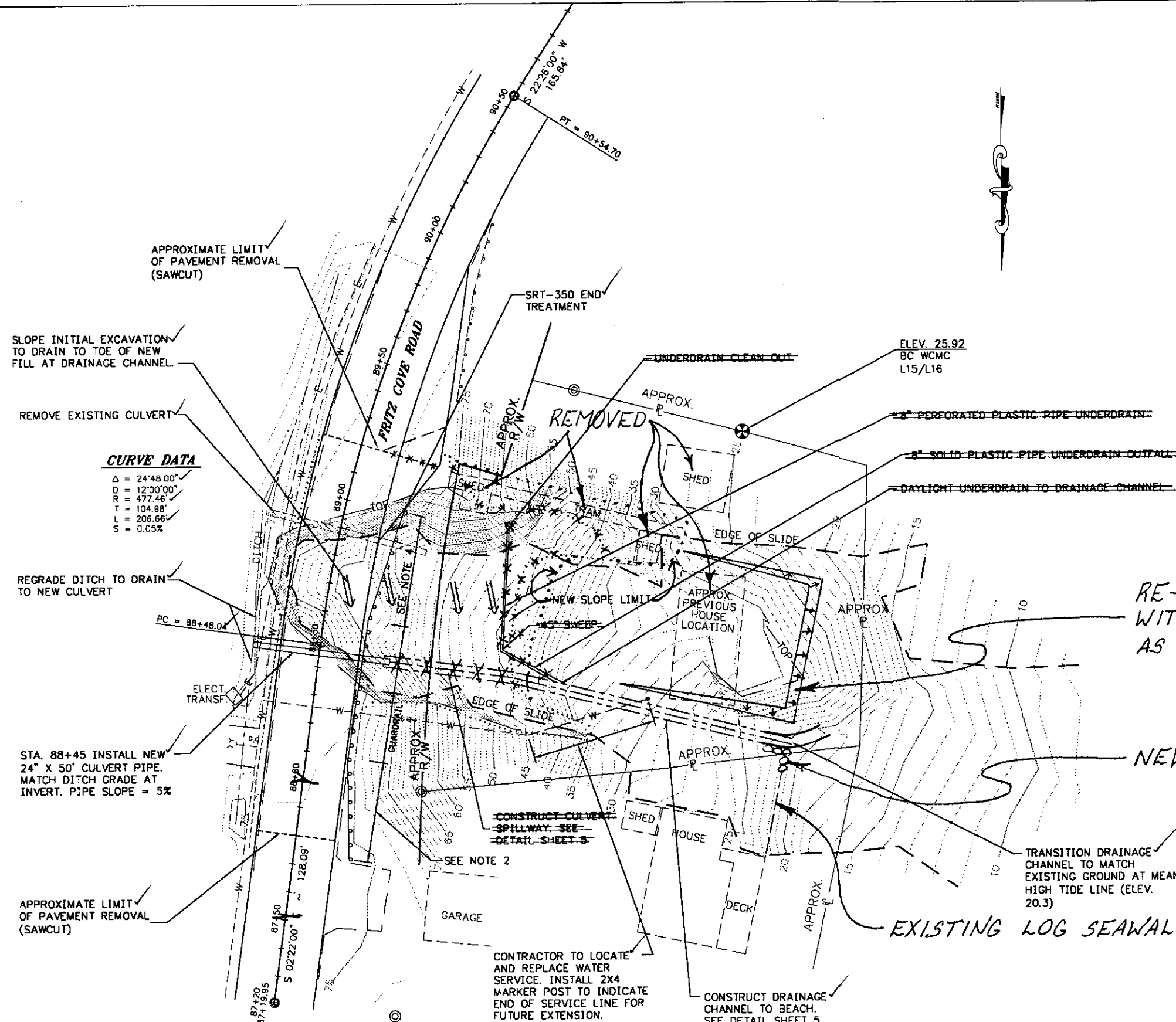
# HORIZONTAL & VERTICAL CONTROL NOTES:

- 1) BASIS OF HORIZONTAL CONTROL TO BE PROVIDED BY THE DEPARTMENT.
- 2) BASIS OF VERTICAL CONTROL IS M.L.L.W. ESTABLISHED BY TIDAL OBSERVATION.

RE-CONSTRUCTED HOUSE PAD WITH ARMOR ROCK ON SLOPES AS REQUIRED

NEW ROCK SLOPE PROTECTION

EXISTING LOG SEAWALL



SITE PLAN

James P. Meyer  
1/28/99

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

|                     |                         |                        |
|---------------------|-------------------------|------------------------|
| PATH:               | Q:\JNU\FRITZSLD\EN\PLAN |                        |
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DEPARTMENT OF TRANSPORTATION  
AND PUBLIC FACILITIES  
SOUTHEAST REGION

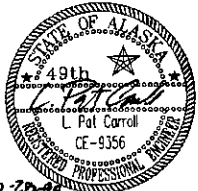
JUNEAU

JNU-FRITZ COVE ROAD

ALASKA

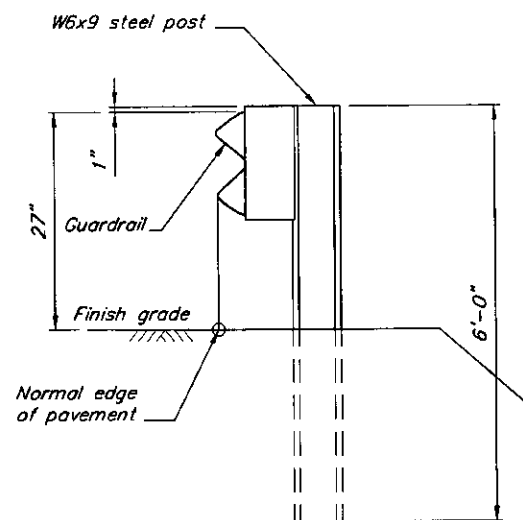
EMERGENCY RESTORATION  
SITE PLAN

|              |            |              |          |
|--------------|------------|--------------|----------|
| DESIGNED BY: | P. CARROLL | PROJECT NO.  | 67707    |
| DRAWN BY:    | R. SNYDER  | DATE:        | 1998     |
| CHECKED BY:  | C. MORROW  | SHEET 3 OF 9 | 10-20-98 |

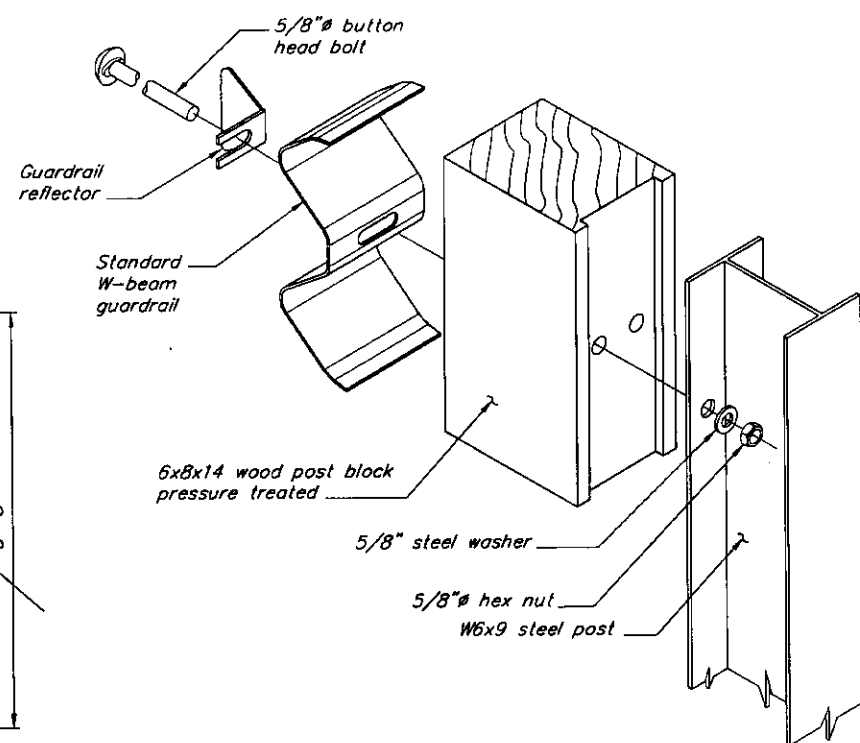


# **GUARDRAIL NOTES:**

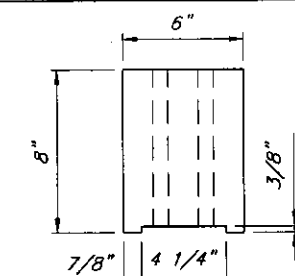
- Guardrail Reflectors shall be mounted at 50' centers beginning with the first post. Type A Reflectors shall be used unless specified otherwise on the plans.
- Post, W-Beam Guardrail and fasteners shown in ARTBA "A Guide to Standardized Highway Barrier Rail Hardware" latest edition are acceptable.
- See standard drawings "Standard Guardrail Hardware" for hardware details.
- Mount rail to block with bolt on approaching traffic side of block web.
- See standard drawing "Beam Guardrail Post Installation" for post lengths corresponding to different combinations of slope and behind-post embankment width.



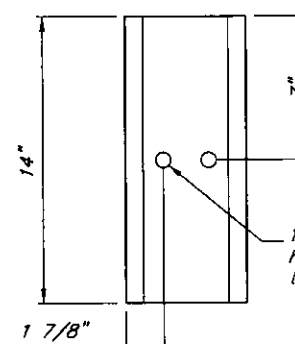
**TYPE I POST INSTALLATION**



**ASSEMBLY DETAIL**

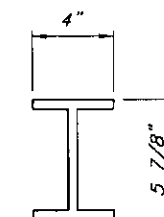


**TOP**



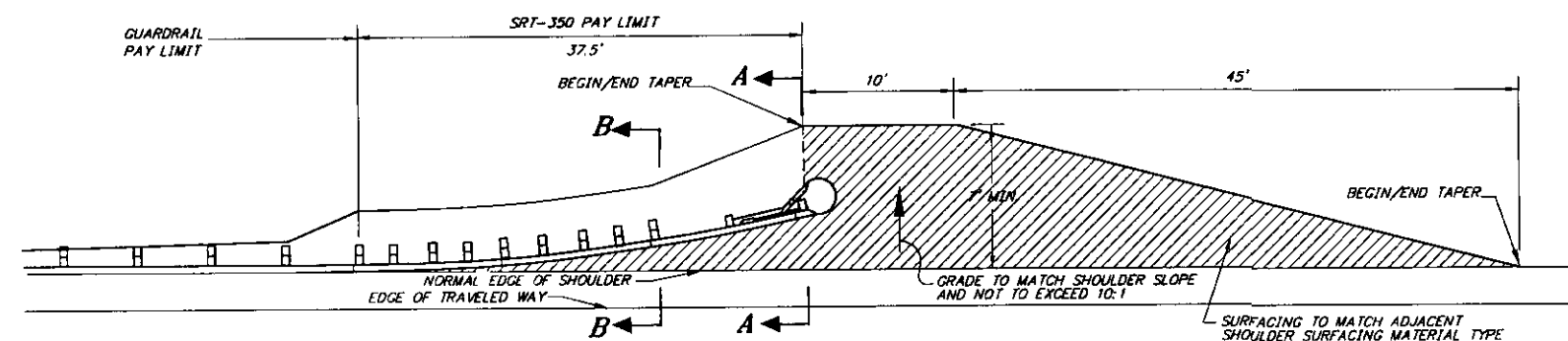
**BACK**

**6" x 8" WOOD BLOCK**



**FACE**

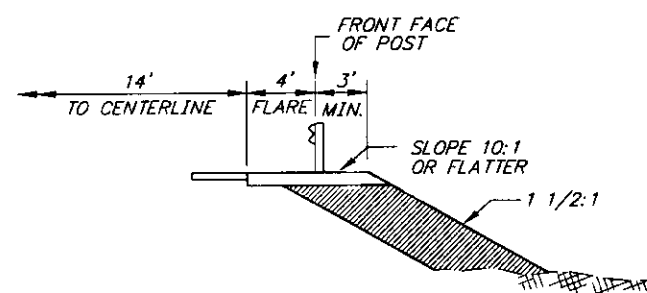
**W6x9 STEEL POST**



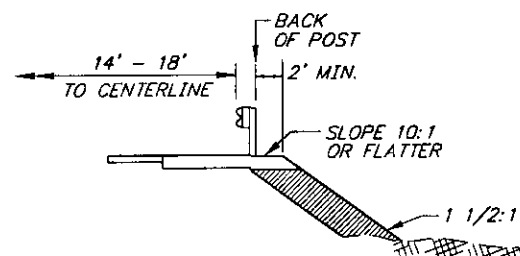
**SRT-350 INSTALLATION WIDENING DETAILS**

# **SRT-350 NOTES:**

- SRT-350 is proprietary design by SYRO Steel Company. Installation to be per manufacturers recommendations.



**SECTION A-A**



**SECTION B-B**

*James P. Morrow*  
1/28/99

|                               |       |                        |
|-------------------------------|-------|------------------------|
| PATH: Q:\JNU\FRITZSLD\EN\det2 |       |                        |
| PLOT: 1=1(F) OR 1=2(H)        |       |                        |
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DEPARTMENT OF TRANSPORTATION  
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SOUTHEAST REGION

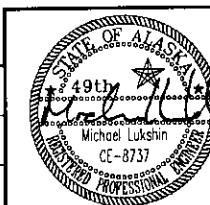
JUNEAU

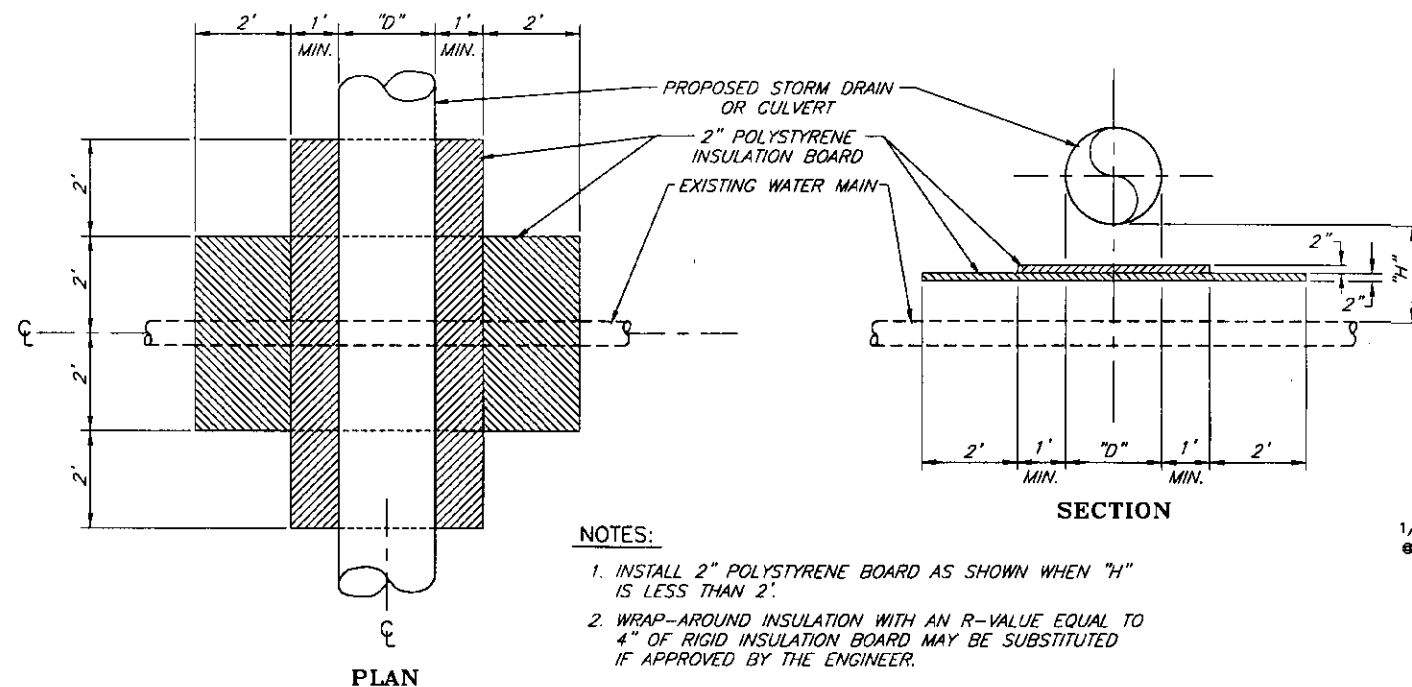
JNU-FRITZ COVE ROAD  
**EMERGENCY RESTORATION  
GUARDRAIL DETAILS**

ALASKA

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS

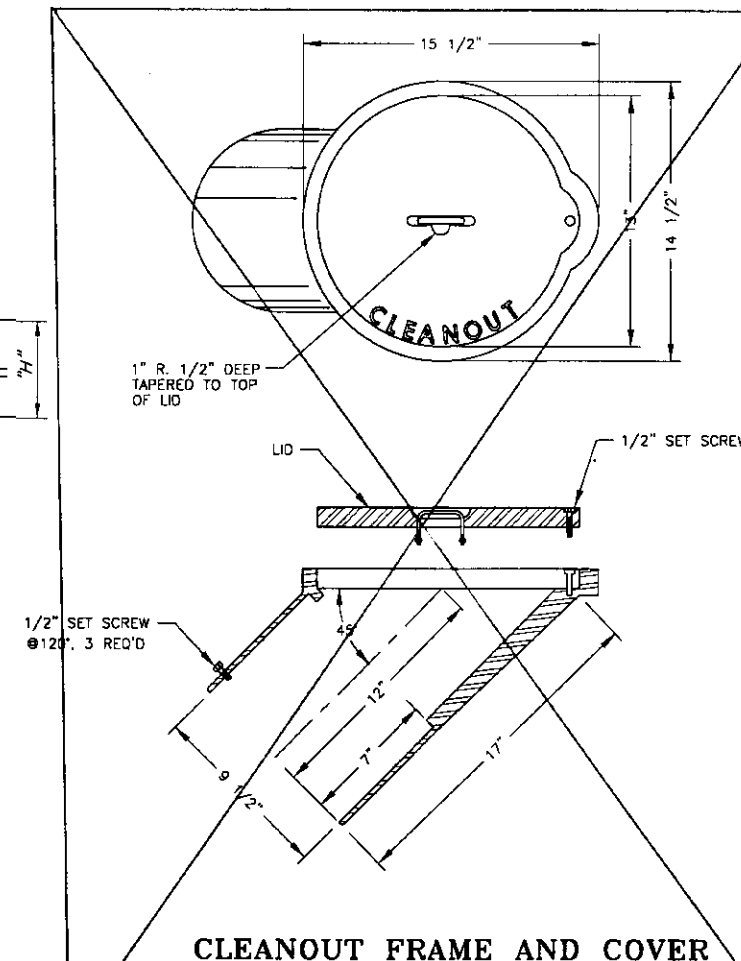
|                            |                      |
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| DESIGNED BY:<br>P. CARROLL | PROJECT NO.<br>67707 |
| DRAWN BY:<br>B. BENNETT    | DATE:<br>1998        |
| CHECKED BY:<br>C. MORROW   | SHEET 4 OF 9         |





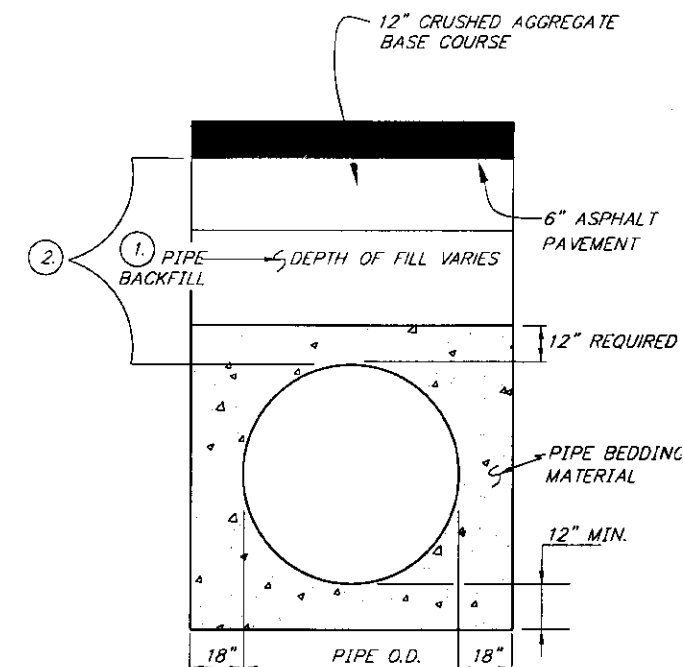
- NOTES:
1. INSTALL 2" POLYSTYRENE BOARD AS SHOWN WHEN "H" IS LESS THAN 2'.
  2. WRAP-AROUND INSULATION WITH AN R-VALUE EQUAL TO 4" OF RIGID INSULATION BOARD MAY BE SUBSTITUTED IF APPROVED BY THE ENGINEER.

WATER LINE INSULATION AT CULVERT DETAIL ✓



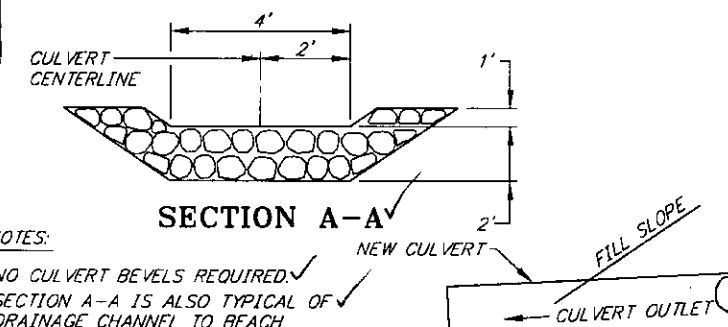
CLEANOUT FRAME AND COVER

NOT  
INSTALLED



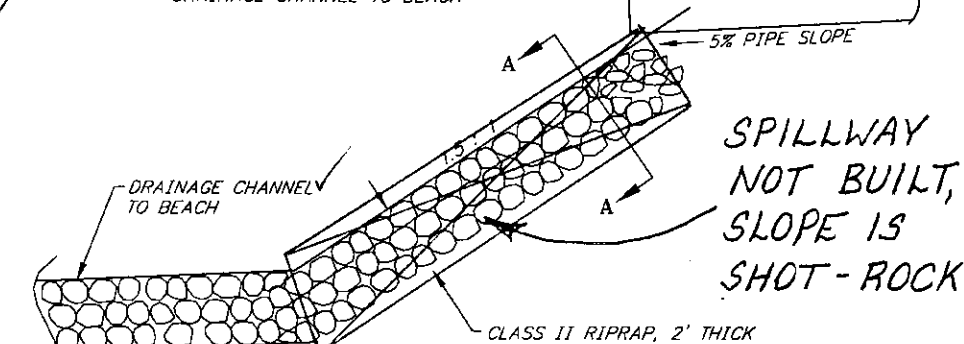
STANDARD CULVERT / WATER MAIN BEDDING DETAIL

1. PIPE BACKFILL SHALL BE PER ROADWAY TYPICAL SECTION.
2. IN THOSE AREAS WHERE PIPES PENETRATE THE STRUCTURAL SECTION (I.E. SHOT ROCK FILL) THE BEDDING AND BACKFILL USED ABOVE THE STRUCTURAL SECTION LINE SHALL MEET THE REQUIREMENTS OF THOSE PORTIONS OF THE STRUCTURAL SECTION PENETRATED BY THE PIPE.
3. THE CONTRACTOR SHALL MAINTAIN ADEQUATE COVER OVER ALL PIPE CROSSINGS AT ALL TIMES TO PREVENT DAMAGE TO THE PIPES.



NOTES:

1. NO CULVERT BEVELS REQUIRED.
2. SECTION A-A IS ALSO TYPICAL OF DRAINAGE CHANNEL TO BEACH



SECTION  
CULVERT OUTLET SPILLWAY DETAILS

James P. Morrow 1/28/99

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DEPARTMENT OF TRANSPORTATION  
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SOUTHEAST REGION

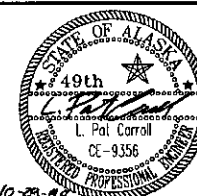
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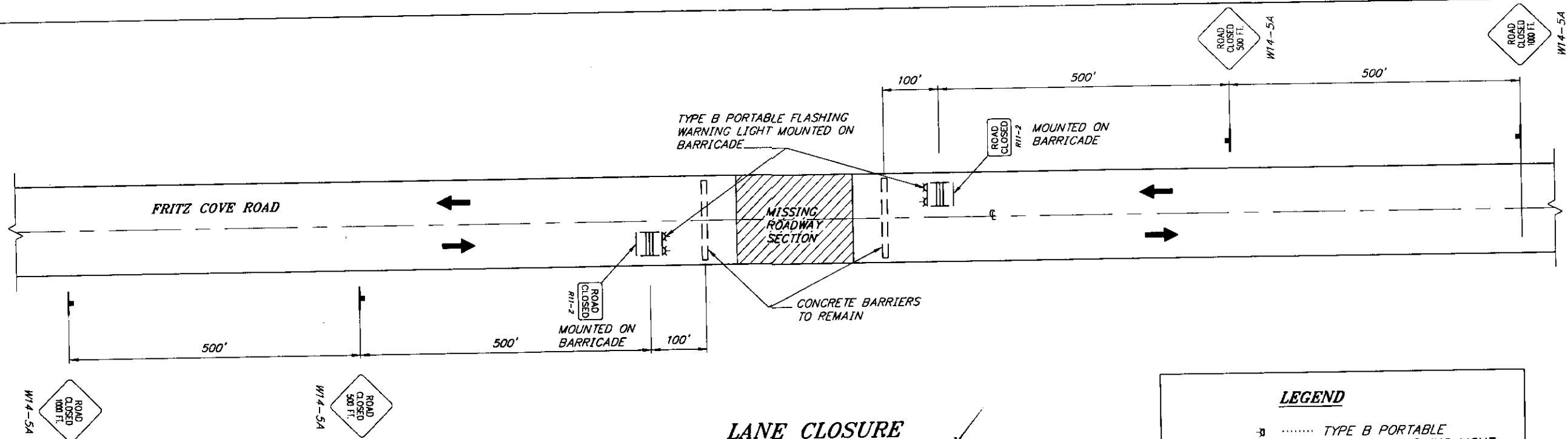
JNU-FRITZ COVE ROAD  
EMERGENCY RESTORATION  
MISCELLANEOUS DETAILS

ALASKA

DESIGNED BY:  
P. CARROLL  
DRAWN BY:  
P. CARROLL  
CHECKED BY:  
C. MORROW

PROJECT NO.  
67707  
DATE:  
1998  
SHEET 5 OF 9





## LANE CLOSURE TWO LANE ROAD

### NOTE:

IF FREEZING AND ICY CONDITIONS EXIST, WHEN THE CONTRACTOR HAS PLACED THE BORROW TYPE D, THE ROAD MUST BE OPENED TO ONE LANE, TWO-WAY OPERATION, UNTIL THE FINAL PAVEMENT IS APPLIED.

### LEGEND

- ..... TYPE B PORTABLE FLASHING WARNING LIGHT
- ..... SIGN
- ..... CONE
- ..... DRUM
- ..... TYPE III BARRICADE
- ..... FLAGGING STATION
- ..... CONCRETE BARRIER

| TCP SETUP TABLE |                    |                        |                |
|-----------------|--------------------|------------------------|----------------|
| SPEED (MPH)     | BUFFER LENGTH (FT) | CONE/DRUM SPACING (FT) | TAPER RATE (T) |
| 20              | 35                 | 20                     | 7:1            |
| 25              | 55                 | 25                     | 10:1           |
| 30              | 85                 | 30                     | 15:1           |
| 35              | 120                | 35                     | 20:1           |
| 40              | 170                | 40                     | 40:1           |
| 45              | 220                | 45                     | 45:1           |
| 50              | 280                | 50                     | 50:1           |
| 55              | 335                | 55                     | 55:1           |
| 60              | 415                | 60                     | 60:1           |
| 65              | 485                | 65                     | 65:1           |

### FORMULAS FOR L (TAPER LENGTH)

$$40 \text{ MPH OR LESS } L = \frac{W \times S^2}{60}$$

$$45 \text{ MPH OR GREATER } L = W \times S$$

WHERE W= WIDTH OF OFFSET  
S= POSTED SPEED LIMIT  
OR ANTICIPATED  
OPERATING SPEED

*James M. May*  
1/28/99

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SOUTHEAST REGION

JUNEAU

JNU-FRITZ COVE ROAD

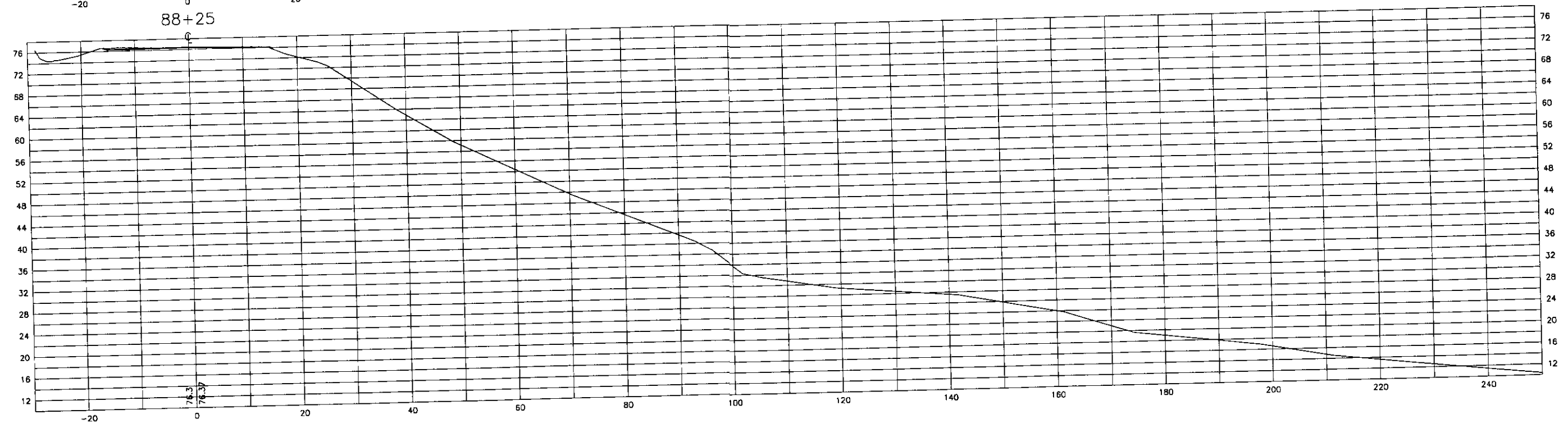
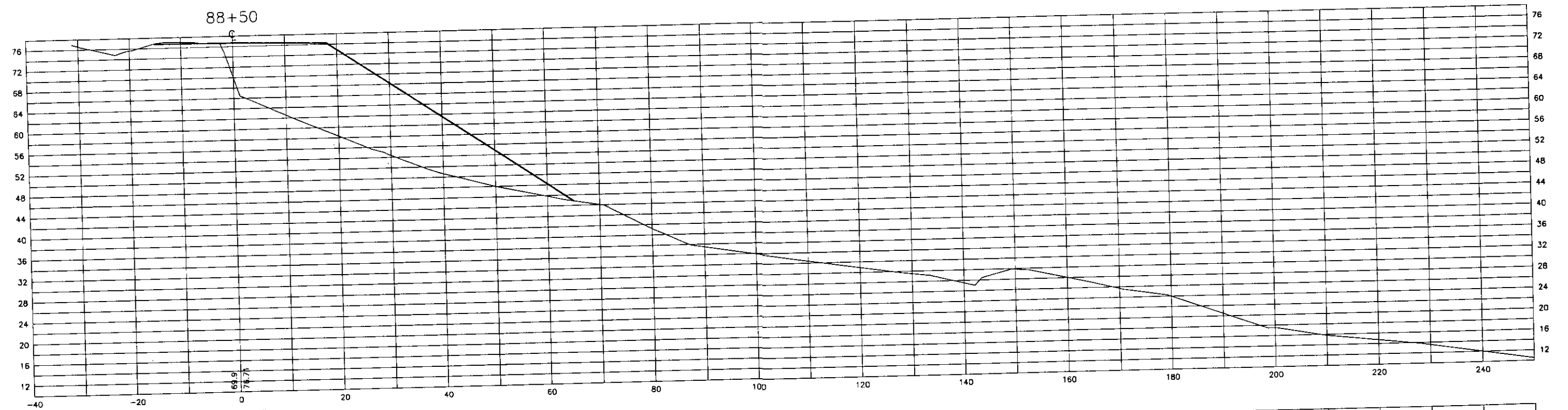
ALASKA

EMERGENCY RESTORATION  
TRAFFIC CONTROL PLAN

DESIGNED BY:  
R. PURVIS  
DRAWN BY:  
B. BENNETT  
CHECKED BY:  
C. MORROW

PROJECT NO.  
67707  
DATE:  
1998  
SHEET 6 OF 9





*James O. May*  
1/28/99

|                                    |       |                        |
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STATE OF ALASKA  
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SOUTHEAST REGION

JUNEAU

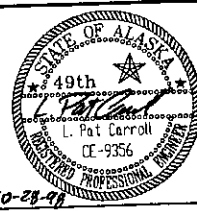
JNU-FRITZ COVE ROAD  
EMERGENCY RESTORATION  
CROSS SECTIONS

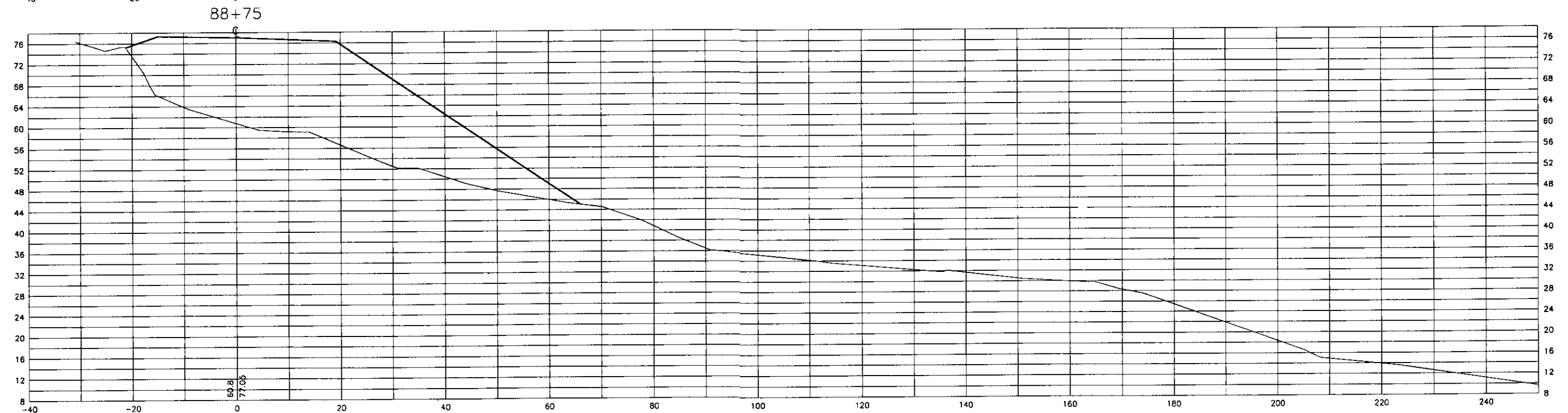
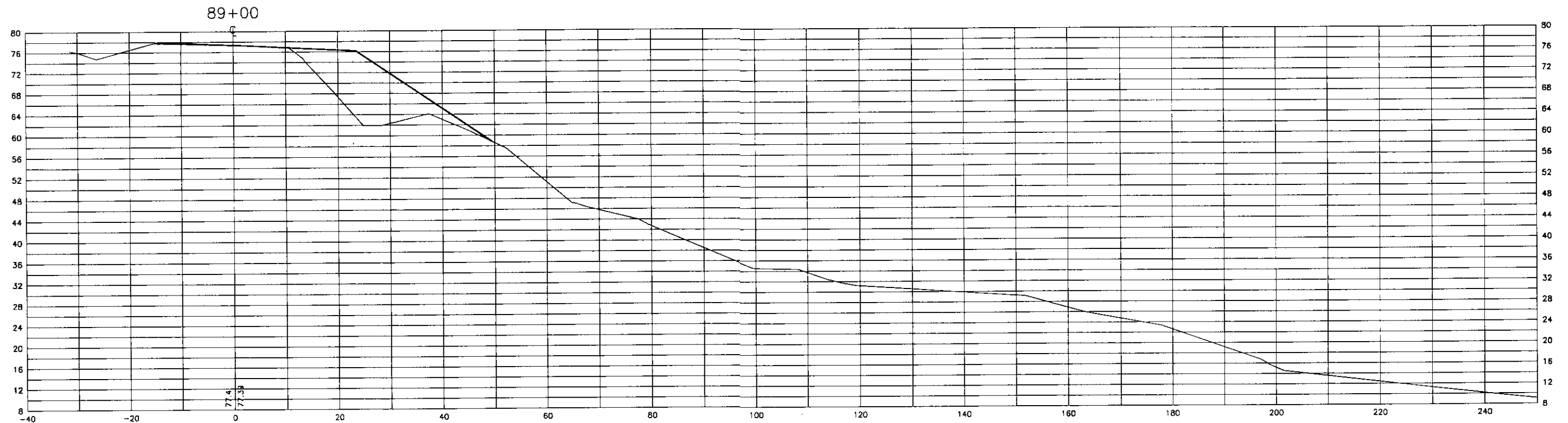
ALASKA

DESIGNED BY:  
P. CARROLL  
DRAWN BY:  
P. CARROLL  
CHECKED BY:  
C. MORROW

PROJECT NO.  
67707  
DATE:  
1998  
SHEET 7 OF 9

NOTE: DO NOT SCALE FROM THESE PLANS-USE DIMENSIONS





James P. Morrow  
1/28/99

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STATE OF ALASKA  
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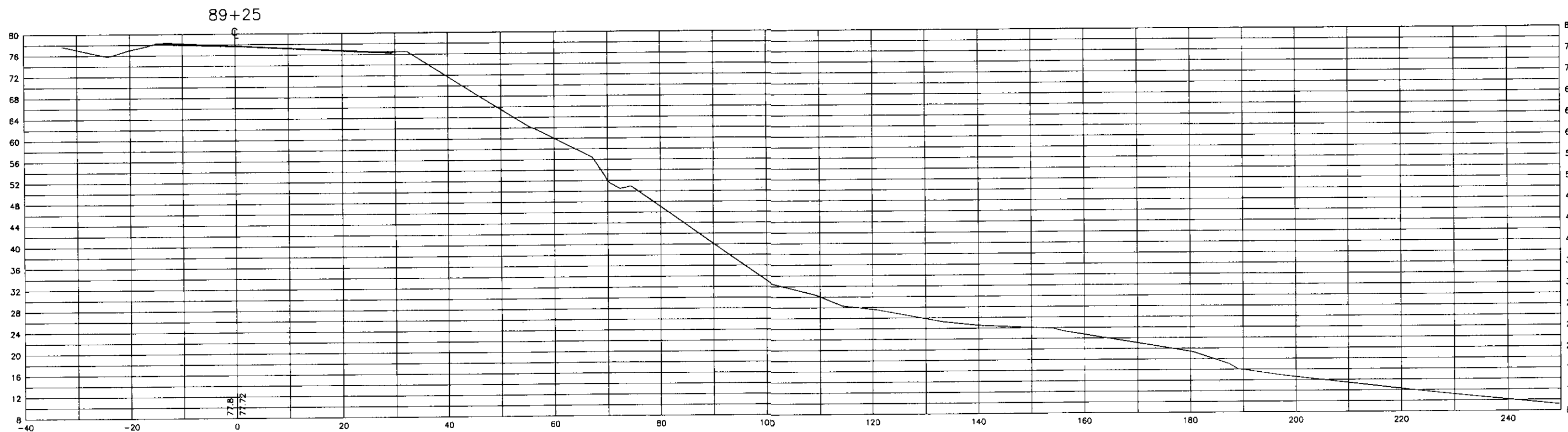
JNU-FRITZ COVE ROAD  
EMERGENCY RESTORATION  
CROSS SECTIONS

ALASKA

DESIGNED BY:  
P. CARROLL  
DRAWN BY:  
P. CARROLL  
CHECKED BY:  
C. MORROW

PROJECT NO.  
67707  
DATE:  
1998  
SHEET 8 OF 9





*James P. Morrow*  
1/28/99

|                                   |       |                        |
|-----------------------------------|-------|------------------------|
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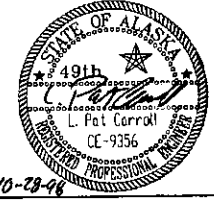
STATE OF ALASKA  
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SOUTHEAST REGION

JUNEAU

JNU-FRITZ COVE ROAD  
EMERGENCY RESTORATION  
CROSS SECTIONS

ALASKA

|              |              |
|--------------|--------------|
| DESIGNED BY: | PROJECT NO.  |
| P. CARROLL   | 67707        |
| DRAWN BY:    | DATE:        |
| P. CARROLL   | 1998         |
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| C. MORROW    |              |



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